

Name: _____

Per: _____

The Periodic Table and Bonding WS 7 “Covalent Bonding”

Complete the chart for each element

Element	# of Protons	# of Electrons	# of Valence Electrons	# of Electrons needed to fill outer shell
Carbon				
Chlorine				
Hydrogen				
Phosphorus				
Oxygen				
Sulfur				
Nitrogen				

Follow the covalent bonding steps to draw the bonding of the following elements.

You should have two drawings: 1 should include circles around each element, its original electrons and the electrons that it is sharing, 2 should include lines to show shared pairs of electrons and dots to represent electrons not part of a shared pair.

Label each molecule as polar or non-polar.

1. 1 Carbon, 1 Hydrogen & 3 Chlorine

2. 1 Carbon, 4 Hydrogen & 1 Oxygen

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3. 2 Carbon & 2 Hydrogen

4. 2 Hydrogen & 2 Oxygen

5. 2 Carbon & 4 Hydrogen

6. 1 Hydrogen, 1 Oxygen & 1 Chlorine